OIPE IAP42 NOV 16 2007 PATENT & TRADEMARK OFFICE

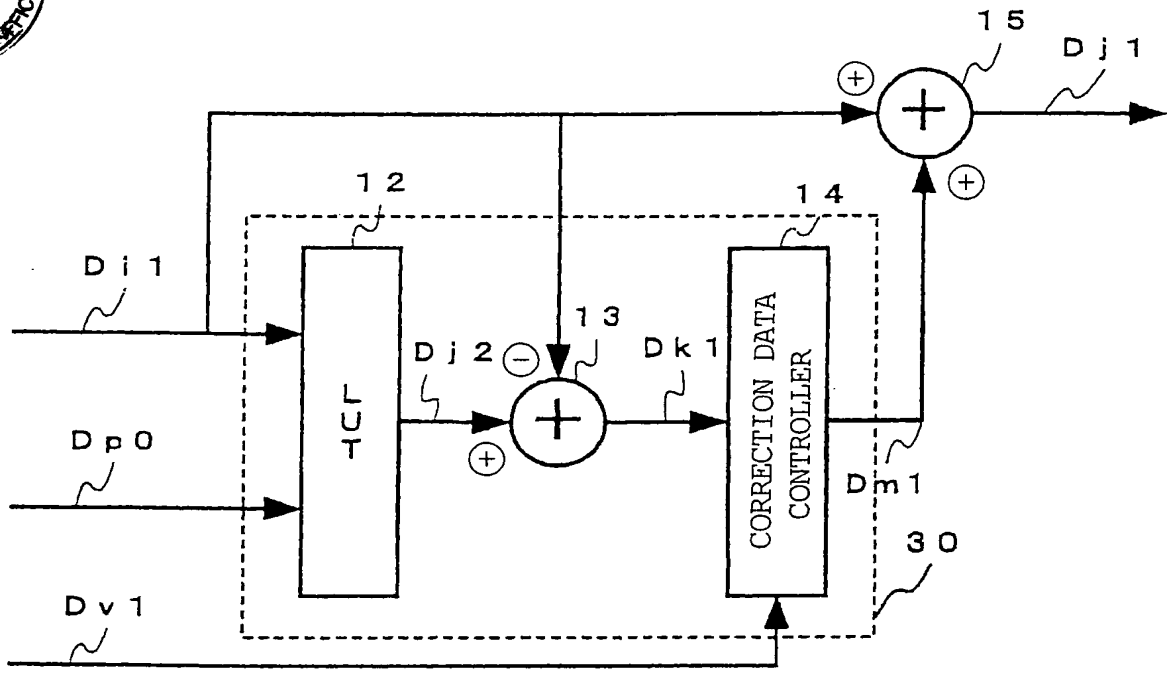


Fig. 4

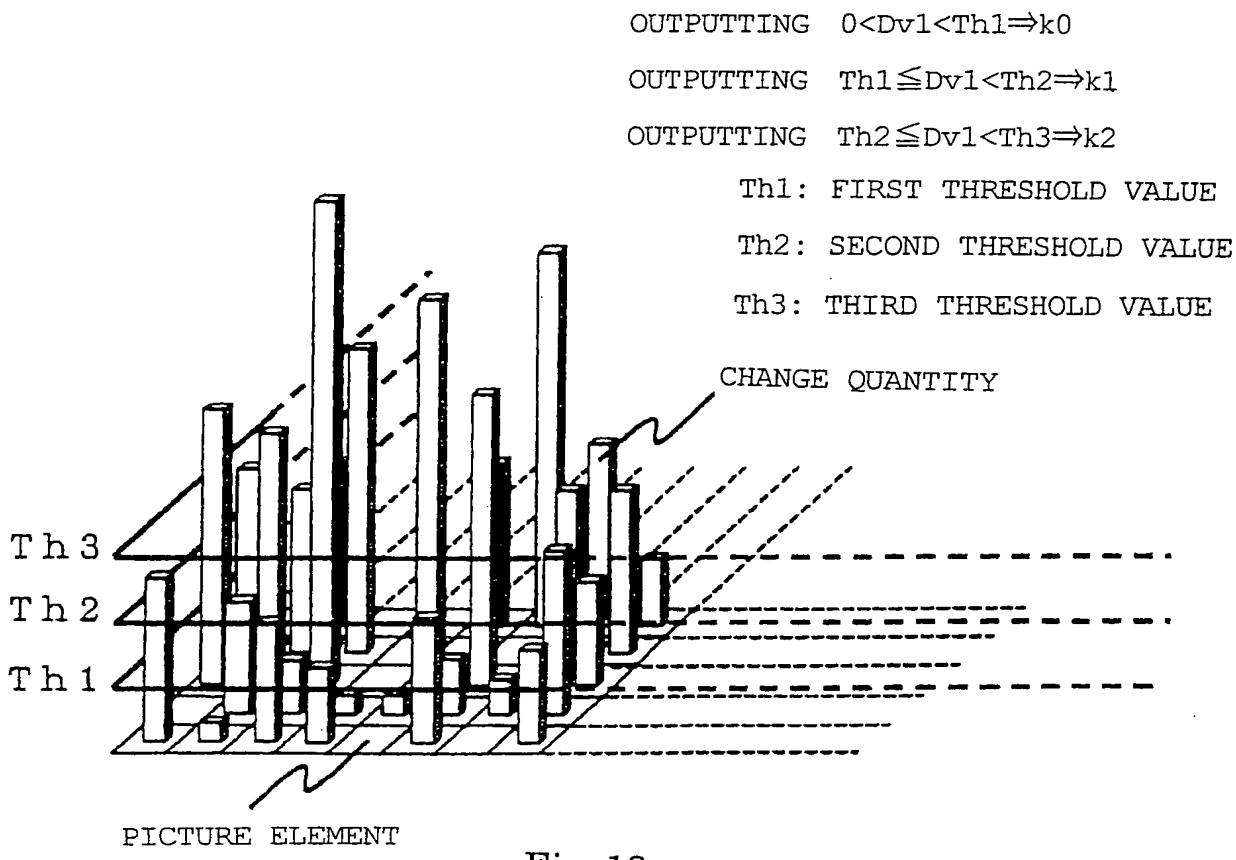

OUTPUTTING 0<Dv1<Th1⇒k0
OUTPUTTING Th1≦Dv1<Th2⇒k1
OUTPUTTING Th2≦Dv1<Th3⇒k2
Th1: FIRST THRESHOLD VALUE
Th2: SECOND THRESHOLD VALUE
Th3: THIRD THRESHOLD VALUE
CHANGE QUANTITY
Th3
Th2
Th1
PICTURE ELEMENT

Fig. 10

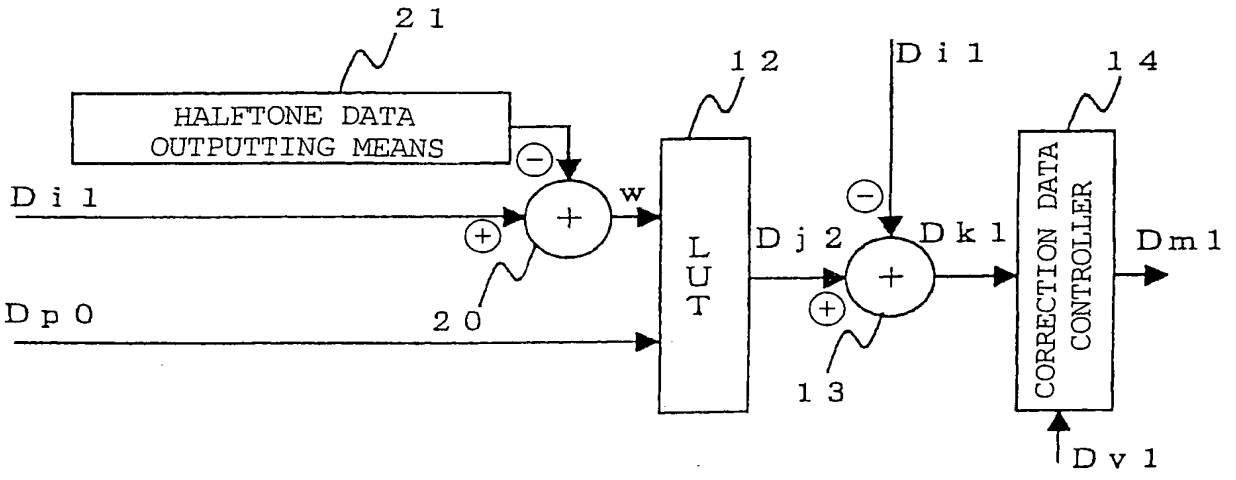
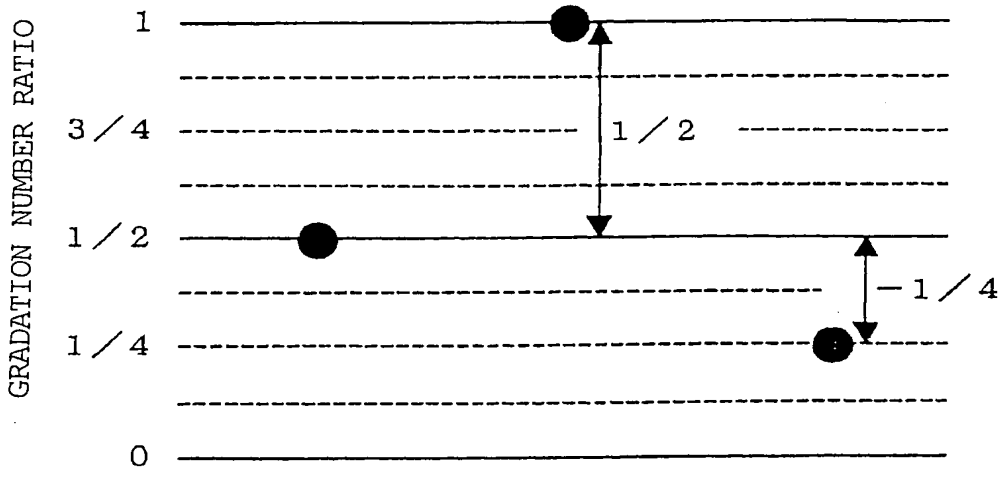
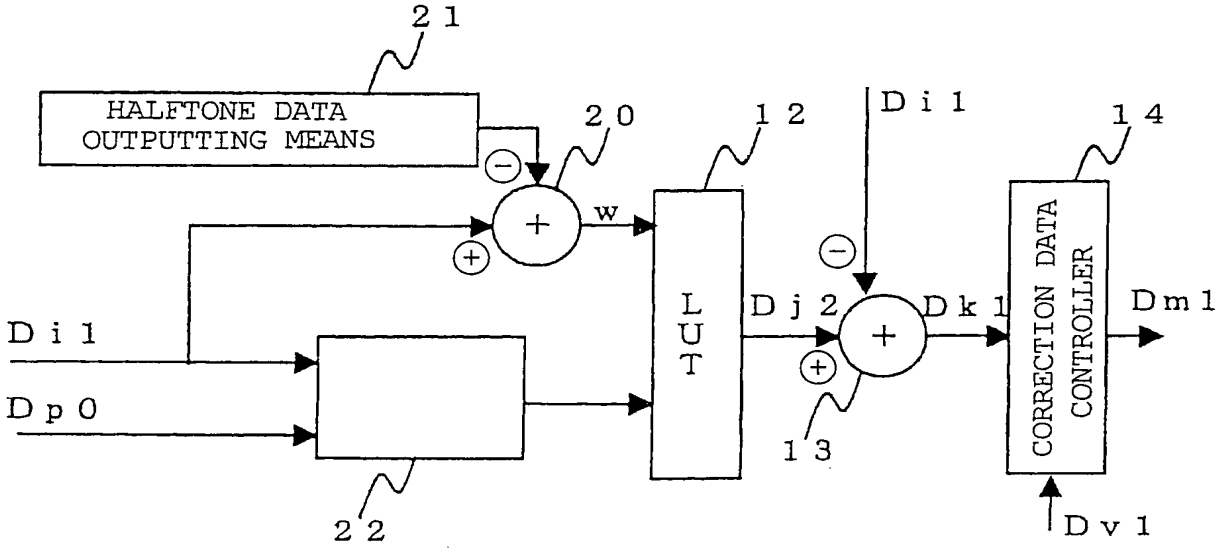

21
HALFTONE DATA OUTPUTTING MEANS
Di1
Dp0
20
w
12
LUT
Dj2
Di1
13
Dk1
14
CORRECTION DATA CONTROLLER
Dm1
Dv1

Fig. 11



	①	②	③
w	0	1／2	−1／4

Fig. 12



22 GRADATION CHANGE DETECTING MEANS

Fig. 13

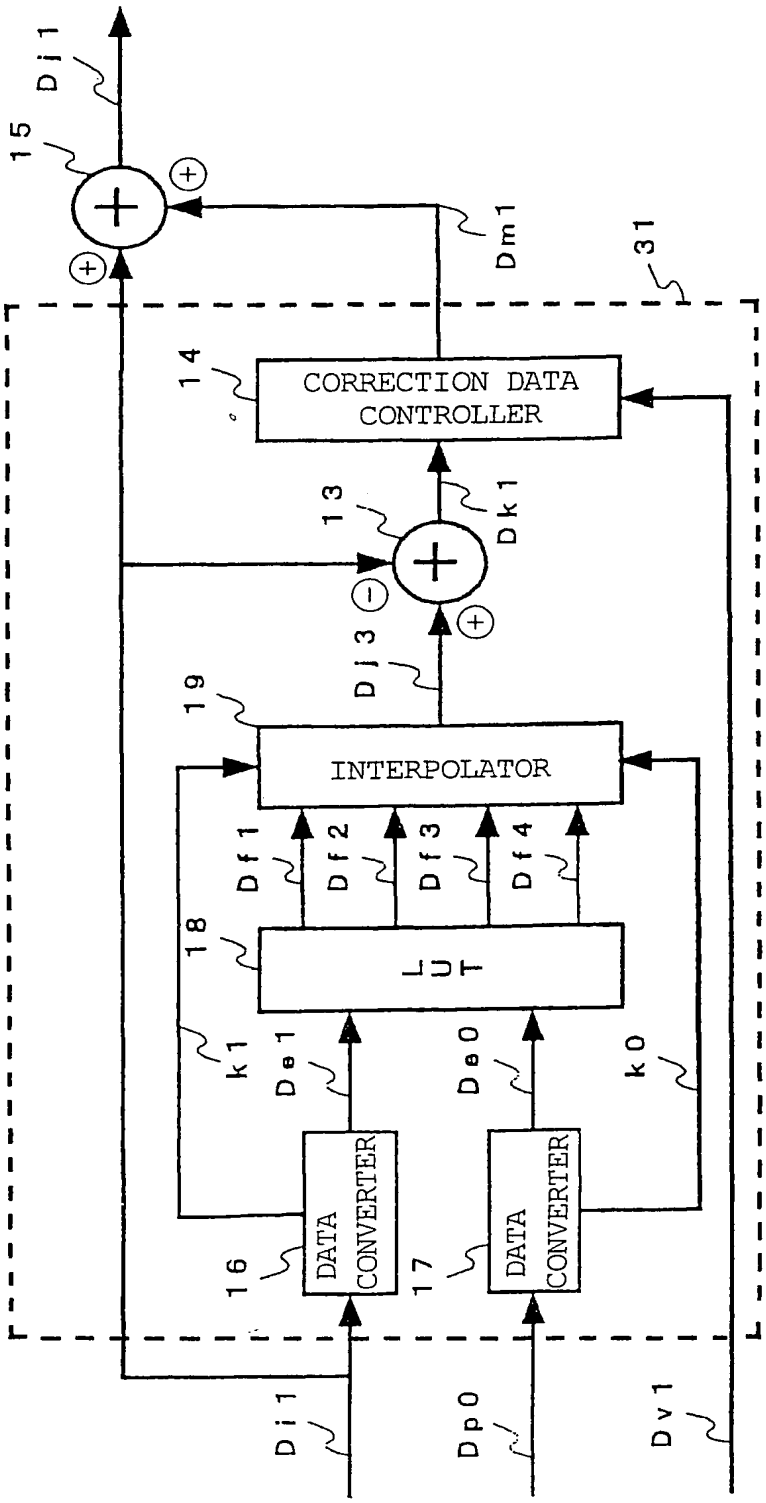

Dj1
15
Dm1
31
14
CORRECTION DATA CONTROLLER
13
Dk1
Dj3
19
INTERPOLATOR
Df1
Df2
Df3
Df4
18
LUT
k1
De1
De0
k0
DATA CONVERTER
16
DATA CONVERTER
17
Di1
Dp0
Dv1

Fig. 17

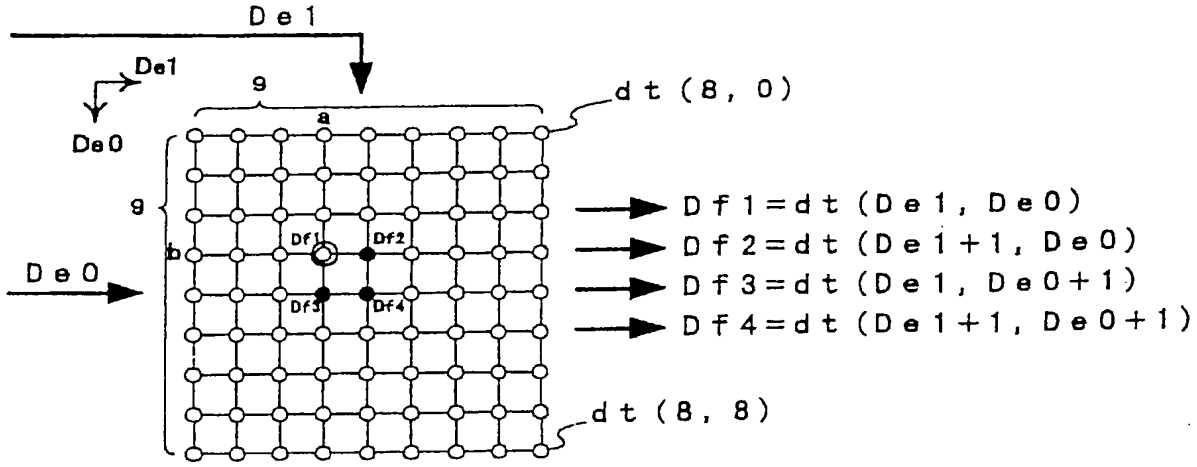

De1
De1
De0
9
a
9
b
De0
Df1
Df2
Df3
Df4
dt (8, 0)
Df1=dt (De1, De0)
Df2=dt (De1+1, De0)
Df3=dt (De1, De0+1)
Df4=dt (De1+1, De0+1)
dt (8, 8)

Fig. 18

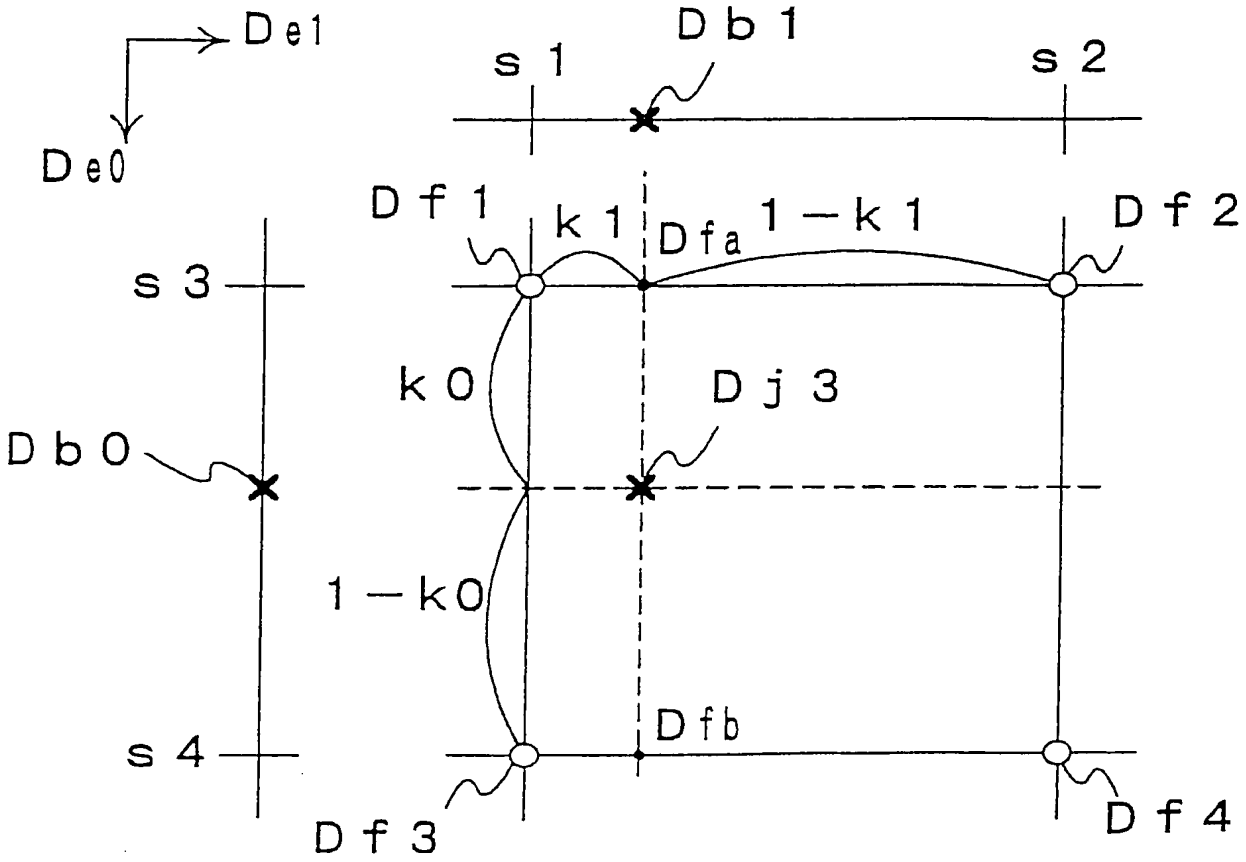

De1
De0
Db1
s1
s2
Df1
k1
Dfa
1−k1
Df2
s3
k0
Dj3
Db0
1−k0
Dfb
s4
Df3
Df4

Fig. 19